

PATENT

Docket No: ST00025USU (SIRF.123USU1)

Serial No.: 09/967,136

REMARKS

Claims 1-8 are currently pending and Applicant has amended independent claim 1. Applicant believes that no new matter has been added in this response.

35 U.S.C §103(a) Rejection

The Examiner rejected claims 1-8 under 35 U.S.C. 103(a) as being unpatentable over Kuo et al. (U.S. 6,370,208) in view of Underbrink (U.S. 6,650,879).

Kuo et al.:

The Kuo et al. patent describes taking advantage of the fact that "at several locations the sets of values of the codes or subcodes are the same", (Kuo, column 4, lines 28-31). Further, Kuo goes on to explain that "...systems and methods consistent with this invention allow designers to reduce the complexity of correlators without restricting the number of codes sets. Such systems and methods maintain flexibility for better code design...", (Kuo, column 4, lines 47-51). Thus, Kuo et al. patent describes the code set or partial code set being reduced prior to correlation. This is opposed to Applicant's claim 1 where the reduction is claimed as removing at least a portion of the mathematical processes that are repeated in the correlation process of the I signal and Q signal data with the pseudorandom codes and results in remaining mathematical processes in the correlation process. Thus the data set for correlation is not reduced by reducing the number of codes or subcodes being processed. Rather it uses a lookup table to reduce the processing of the data terms with the codes and not reducing the number code or subcode operations that occur with the data terms as described in Kuo.

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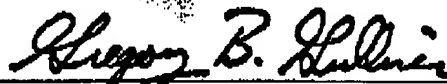
Further, Kuo does not describe the I and Q data terms being accumulated separately as claimed in independent claim 1. Support for the amendments made to claim 1, may be found on page 11, lines 11-14 of the specification. As shown in FIG. 1 of the Kuo patent, groups of the codes are discussed, but not the accumulation of I and Q data separately. No where in the Kuo references does it state or show the accumulation of I data and Q data being separate. The term subcodes is described in the Kuo patent in column 3, lines 65-67, where the subcodes are portions of the divided PN code. Therefore, the combination of Kuo et al. in view of Underbrink fails to teach or describe all of Applicant's claim elements as claimed in independent claim 1. Similarly, the claims that depend from independent claim 1, namely dependent claims 2-8, are also in condition for allowance.

CONCLUSION

In light of the above remarks, Applicant respectfully submits that the present application is now in proper condition for allowance, which such action is earnestly solicited.

Respectfully submitted,
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